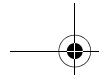


OWNER'S MANUAL

Please read before using this equipment.



RadioShack®



INTRODUCTION

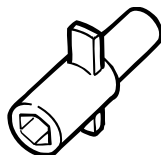
Your RadioShack Tempest can make you a winner! With its proportional speed and precise steering, you can drive the racer almost anywhere. Built to $\frac{1}{8}$ scale, it can reach speeds of up to 1200 feet per minute and climb hills up to 45°.

Your Tempest's double wishbone front suspension and high-performance tires give it good traction on almost any terrain. The front and rear wheel differential gears let you take smooth, sharp corners.

Your Tempest is available in four frequencies to let you race against other radio-controlled cars. Check your racer's box to see which frequency it uses.

Note: You need one 9-volt battery for the transmitter, at least one 7.2-volt battery pack for the racer, and a battery pack charger. (Batteries, battery pack, and battery charger are sold separately.)

The supplied box wrench (shown below) lets you easily remove and replace the racer's wheels. Be careful not to discard the wrench when you unpack the racer.



NOTE

All batteries required for the Tempest are available at your local RadioShack store.

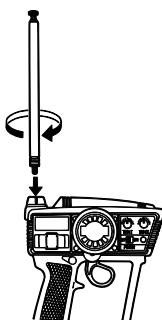
© 1999 Tandy Corporation.
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PREPARATION

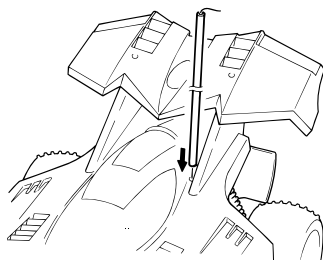
ATTACHING THE TRANSMITTER'S ANTENNA

Thread the antenna into the transmitter's antenna connector. Make sure the connection is tight.



INSTALLING THE RACER'S ANTENNA TUBE

The antenna tube holds up the racer's antenna wire for the best reception and range. Route the antenna wire's loose end through the tube. Then insert the tube securely into the racer's antenna tube holder.



INSTALLING BATTERIES

Cautions:

- Use only fresh batteries of the required size and recommended type.
- If you will not be using the racer for a week or more, remove the battery

from the transmitter and the battery pack from the racer. Batteries can leak chemicals that can damage electronic parts.

- Never leave dead or weak batteries in the racer or transmitter.

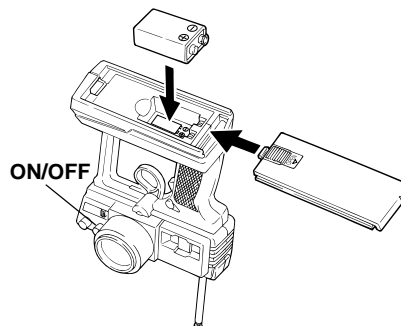
WARNING

Dispose of old batteries and the battery pack promptly and properly; do not burn or bury them.

In the Transmitter

The transmitter requires one 9-volt battery. For the best performance and longest life, we recommend a RadioShack alkaline battery.

Follow these steps to install the transmitter's batteries.



1. Slide the transmitter's **ON/OFF** switch to **OFF**.
2. To remove battery compartment cover, press down and slide in the direction of the arrow marked on it.

3. Put the battery in the compartment as indicated by the polarity symbols (+ and –) marked inside.

4. Replace the cover and snap it shut.

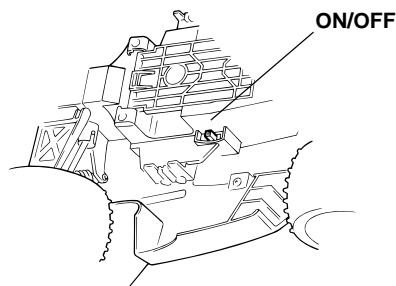
When the transmitter's range decreases, replace its battery.

In the Racer

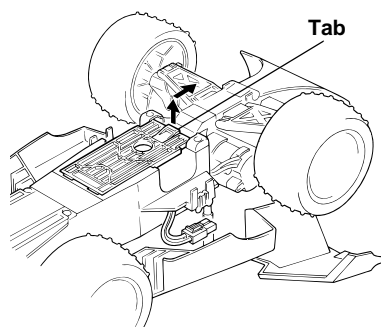
Your Tempest requires a rechargeable 7.2-volt battery pack. Before you use the battery pack, you must charge it using a special battery charger. Follow the charger's instructions to charge the battery pack.

Follow these steps to install the racer's battery pack.

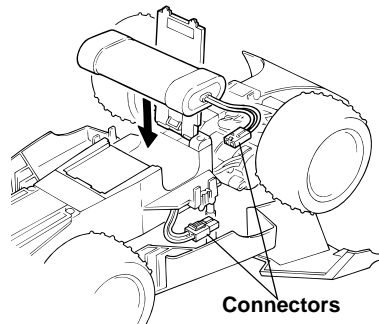
1. Slide the racer's **ON/OFF** switch under the racer to **OFF**.



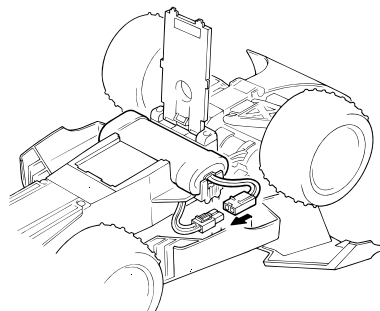
2. Lift the battery compartment's tab and slide the cover in the direction of the arrow marked on it. Then lift open the cover.



3. Place the battery pack between the compartment and the back of the racer. The battery pack's connector must be on the same side as the racer's matching connector.



4. Attach the battery pack's connector to the racer's matching connector. Do not force them. They fit together only one way.



Caution: Be sure the connectors and wires do not touch any of the Tempest's moving parts.

5. Close the cover.

If the Tempest loses power or does not respond to the transmitter, recharge the battery pack.

To remove the battery pack, unplug the connectors and open the cover as described in Step 2. Then slide the pack toward the pack's connector and lift the other side of the battery pack.

Cautions:

- Use only the recommended battery pack and charger.
- Do not charge or recharge the battery pack while it is in the racer.
- After you charge or recharge the battery pack (12–14 hours), disconnect it from the charger. Overcharging the battery pack could damage it.
- When you disconnect the battery pack from the charger, do not pull on the connector's wires. You might damage the battery pack.

Note:

- Occasionally, let the battery pack fully discharge before recharging it. Otherwise, the battery pack loses its ability to fully charge.
- To run your racer for extended periods of time, we suggest you purchase an extra battery pack. You can charge one while you use the other.

Important: At the end of the battery pack's useful life, it must be recycled or disposed of properly. Contact your local, county, or state hazardous waste management authorities for information on recycling or disposal programs in your area. Some options that might be available are: municipal curb-side collection, drop-off boxes at retailers such as your local RadioShack store, recycling collection centers, and mailback programs.

WARNING

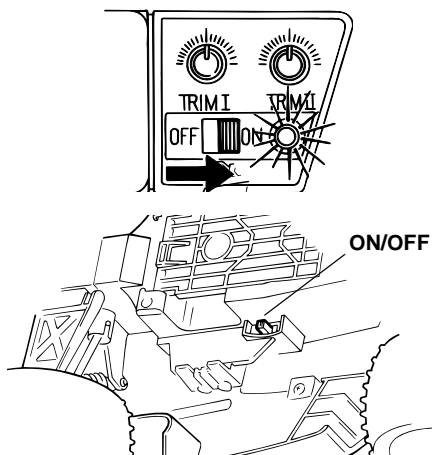
Do not touch the motor immediately after using the racer, as it might become hot during use.

CAUTION

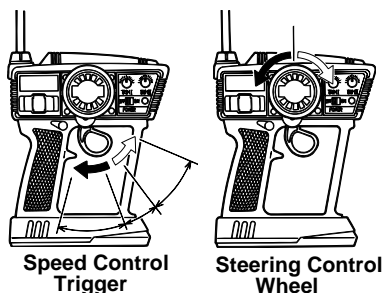
Don't play with your Tempest in the street. This presents a potential danger to you and the Tempest.

DRIVING THE TEMPEST

1. Extend the transmitter's antenna to its full length.
2. Slide the **ON/OFF** switches on the transmitter and the racer to **ON**.



3. Hold the transmitter in your left hand and place your left index finger in the trigger mechanism. Face the controls towards you, as show in the diagram below. Use the transmitter's trigger and wheel to drive and steer the Tempest.



Speed Control Trigger

- Pull the trigger left to move forward. Increasing the pull increases the racer's speed.

- Push the trigger right to move backward.
- Release to stop.

Steering Control Wheel

- Turn left to move left.
- Turn right to move right.
- Release to go straight.

Caution: If the Tempest gets stuck under an object, immediately release the transmitter's control levers and retrieve the racer.

4. When you finish playing with the Tempest, slide the **ON/OFF** switches on the racer and the transmitter to **OFF**.

TIP

To obtain the longest life from your racer, let the racer cool for at least 10 minutes before installing a new or newly charged battery pack.

NOTE

This racer can reach much higher speeds than most radio-controlled cars. Avoid high-impact collisions with people and objects.

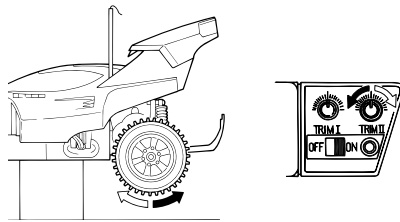
ADJUSTING THE TRIM CONTROLS

The neutral trim control (**TRIM II** above the **ON/OFF** switch) lets you fine-tune the speed control so the racer completely stops when you release the speed control to its center position.

The steering trim control (**TRIM I** above the **ON/OFF** switch) lets you fine-tune the steering so the racer drives in a straight line when you set the steering control to its center position.

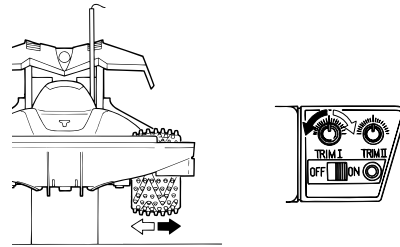
Follow these steps to adjust the trim controls.

1. Place the racer on a block or turn it over so the tires do not touch the ground.
2. Slide the **ON/OFF** switches on the transmitter and racer to **ON**.
3. If the tires move, turn **TRIM II** until the tires stop.



Caution: Never set **TRIM II** to make the racer continually move.

If the front tires angle left or right, turn **TRIM I** until they point directly forward.



4. When you finish the adjustment, slide the **ON/OFF** switches on the transmitter and the racer to **OFF**.

Note: You might have to further fine-tune **TRIM I** after using the racer for awhile.

HELPFUL HINTS

These hints can help you get the most enjoyment from your Tempest.

- If someone uses a CB nearby, it might interfere with control of the racer. If this happens, move the racer and transmitter away from the CB.
- If the racer moves slowly and you have installed a fully charged battery pack, check the wheel mechanisms for lint, thread, hair or dust.

RACING TWO OR MORE CARS TOGETHER

The Tempest and other radio-controlled cars use specific frequencies to operate. Cars with different control frequencies can race together without interference. Cars with the same frequency cannot.

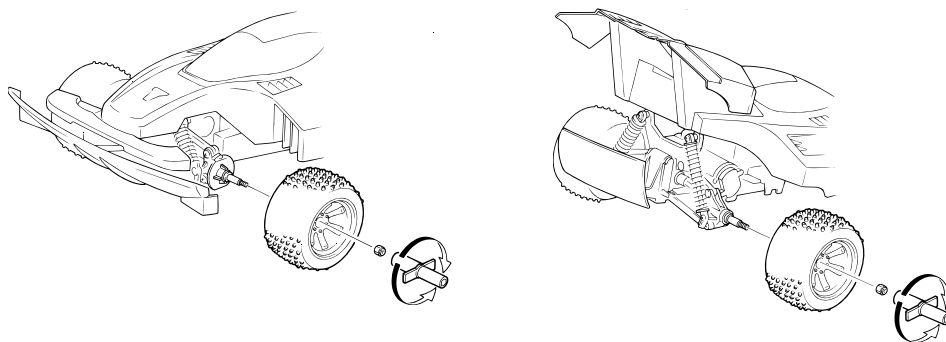
The following chart shows the available control frequencies for your Tempest, based on its ribbon color. If you buy more than one racer and you plan to race them, check the stickers on the boxes to be sure they are different band numbers/colors for different frequencies.

Band	Frequency	Ribbon Color
1	26.995 MHz	Brown
2	27.045 MHz	Red
3	27.095 MHz	Orange
5	27.195 MHz	Green

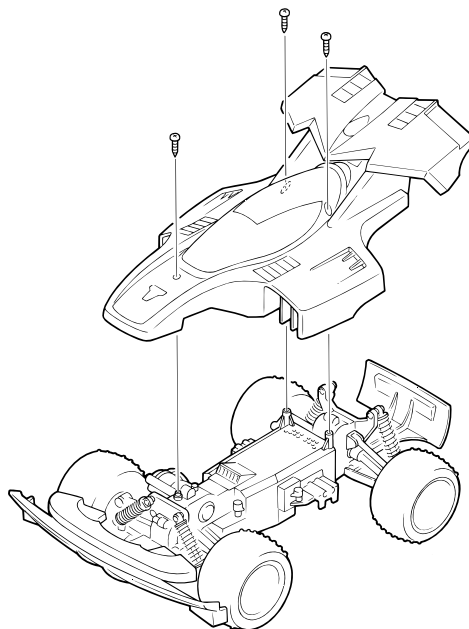
USER-REPLACEABLE PARTS

You can order replacement parts or parts sets for your vehicle at your local RadioShack store. Simply identify the part(s) or sets you need from the exploded view on Pages 10 and 11, then find the part number in the list on Pages 12–17 or the parts set(s) number on Page 18.

Installing the Tires and Wheels Set

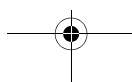
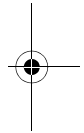
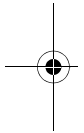


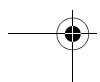
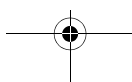
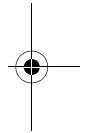
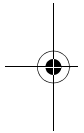
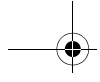
Installing the Body Set





Vendor will paste in exploded view





Note: For “Inc. in RSU” items, see “Spare Parts Sets” on Page 18.

Ref. No.	Description	RSU Part #	NP Part #
1	Body	Inc. in RSU 12057055 (NP Z91312)	
3	Windshield	Inc. in RSU 12057055 (NP Z91312)	
5	Wing	Inc. in RSU 12057055 (NP Z91312)	
6	Front Wing	Inc. in RSU 12057063 (NP Z91313)	
10	Rod Mount	No replacement part available	
11	Front Bumper	Inc. in RSU 12057063 (NP Z91313)	
12	Rear Bumper	12055190	Z91297
14	Chassis	No replacement part available	
15	Differential Spacer (2)	12055224	HC90426
16	Battery AA Box Cover	No replacement part available	
17	Chassis Cover	12055232	HC90427
18	Battery Lid	10605061	DB0245
21	Crystal Hole Cover	No replacement part available	
24	Front Gear Box (Right)	Inc. in RSU 11442415 (NP RA2808)	
25	Front Gear Box (Left)	Inc. in RSU 11442415 (NP RA2808)	
26	Rear Gear Box (Right)	Inc. in RSU 11442415 (NP RA2808)	
27	Rear Gear Box (Left)	Inc. in RSU 11442415 (NP RA2808)	
33	Motor Cover	Inc. in RSU 11811544 (NP MD90003)	
34	Motor Mount	Inc. in RSU 11811544 (NP MD90003)	
37	Box Wrench	Inc. in RSU 10675148 (NP HC3047)	
39	Front Damper Stay	Inc. in RSU 10675148 (NP HC3047)	
40	Rear Damper Stay	Inc. in RSU 10675148 (NP HC3047)	
41	Chassis Under Cover	12055422	HC90433

Ref. No.	Description	RSU Part #	NP Part #
42	Battery Lid Holder (Left)	Inc. in RSU 10675148 (NP HC3047)	
45	Battery Lid Holder (Right)	Inc. in RSU 10675148 (NP HC3047)	
50	Wheel Cap	Inc. in RSU 11686649 (NP Z00489)	
51	Wheel	Inc. in RSU 11686649 (NP Z00489)	
52	Front Suspension Arm	Inc. in RSU 11686672 (NP RA00156)	
53	Rear Suspension Arm	Inc. in RSU 11686672 (NP RA00156)	
68	Rocker Arm	Inc. in RSU 11686672 (NP RA00156)	
70	Plastic Bearing (Large)	Inc. in RSU 11686664 (NP Z00490)	
72	Plastic Bearing (Middle)	Inc. in RSU 11686664 (NP Z00490)	
73	Plastic Bearing (Outside)	Inc. in RSU 11686664 (NP Z00490)	
74	Differential Housing	Inc. in RSU 11442407 (NP RA2807)	
75	Ring Gear	Inc. in RSU 11442407 (NP RA2807)	
76	Counter Gear	Inc. in RSU 11442407 (NP RA2807)	
78	Wheel Axle Holder (Front)	Inc. in RSU 11686680 (NP Z00491)	
79	Wheel Axle Holder (Rear)	Inc. in RSU 11686680 (NP Z00491)	
88	Planetary Gear	Inc. in RSU 11442407 (NP RA2807)	
89	Differential Side Gear	Inc. in RSU 11442407 (NP RA2807)	
90	Bumper Hold Boss	Inc. in RSU 10675148 (NP HC3047)	
103	Compression Spring (Front)	Inc. in RSU 11686672 (NP RA00156)	
104	Compression Spring (Rear)	Inc. in RSU 11686672 (NP RA00156)	
107	Tie-Rod (Long)	Inc. in RSU 11038023 (NP RK0149)	
108	Tie-Rod (Short)	Inc. in RSU 11038023 (NP RK0149)	
110	Round Bush	12055661	HC90440
111	Round Bush	Inc. in RSU 10675148 (NP HC3047)	
116	Drive Shaft (4)	11038015	RK0148

Ref. No.	Description	RSU Part #	NP Part #
121	Nylon Nut (M4, Black)	Inc. in RSU 11686649 (NP Z00489), RSU 11811650 (NP HD90001)	
122	Hexagon Nut (M3, White)	Inc. in RSU 11811650 (NP HD90001)	
126	Pinion Gear	Inc. in RSU 11811544 (NP MD90003)	
129	Shaft (4.97 x 26L) (2)	12052676	RA90260
132	Shaft (2 x 20L)	Inc. in RSU 11442407 (NP RA2807)	
134	Rivet (4 x 21L)	Inc. in RSU 10675148 (NP HC3047)	
136	Switch Cover	11974763	HC90260
137	Motor Packing	Inc. in RSU 11811544 (NP MD90003)	
138	Screw (3 x 36, White)	Inc. in RSU 11811650 (NP HD90001)	
139	Screw (3 x 33, White)	Inc. in RSU 11811650 (NP HD90001)	
140	Screw (Assemble washer, 2.6 x 6, White)	Inc. in RSU 11811544 (NP MD90003)	
142	Tapping Screw (2.6 x 10, Black)	Inc. in RSU 11811544 (NP MD90003)	
143	Tapping Screw (2 x 8, White)	Inc. in RSU 11442407 (NP RA2807)	
144	Tapping Flange Screw (2 x 10, White)	Inc. in RSU 11686664 (NP Z00490)	
145	Tapping Screw (3 x 8, White)	No replacement part available	
146	Tapping Screw (3 x 16, Black, B Type) (2)	12056727	HD90077
147	Tapping Flange Screw (3 x 8, Black)	No replacement part available	
148	Tapping Screw (3 x 10, Black)	Inc. in RSU 10675148 (NP HC3047), RSU 12057063 (NP Z91313), RSU 11442415 (NP RA2808), RSU 11811544 (NP MD90003)	
149	Tapping Flange Screw (3 x 10, Black) (4)	120567423	HD90079
150	Tap Tight (3 x 10, Black, B Type)	Inc. in RSU 12057063 (NP Z91313)	

Ref. No.	Description	RSU Part #	NP Part #
151	Tapping Flange Screw (3 x 18, Black, B Type)	Inc. in RSU 12057063 (NP Z91313)	
152	Tapping Screw (3 x 10, White)	Inc. in RSU 11686649 (NP Z00489) and RSU 12057055 (NP Z91312)	
153	Tapping Screw (3 x 12, Black)	Inc. in RSU 10675148 (NP HC3047), RSU 12057055 (NP Z91312)	
154	Screw Shaft (3.5 x 14.5)	Inc. in RSU 11811650 (NP HD90001)	
155	Screw Shaft (3.5 x 17.5)	Inc. in RSU 11811650 (NP HD90001)	
156	Screw Shaft (3.5 x 26.5)	Inc. in RSU 11811650 (NP HD90001)	
157	Screw Shaft (3.5 x 40.5)	Inc. in RSU 11811650 (NP HD90001)	
158	King Pin	Inc. in RSU 11811650 (NP HD90001)	
159	Tapping Screw (2 x 6, White)	Inc. in RSU 11686680 (NP Z00491)	
160	Hexagon Head Screw (4 x 39, White)	Inc. in RSU 11811817 (NP HB90008)	
161	Motor	Inc. in RSU 11811544 (NP MD90003)	
162	Receiver PCB	12056818	XB90585
163	Ceramic Capacitor	Inc. in RSU 11811544 (NP MD90003)	
164	Switch	12052791	S90234
166	Tapping Screw (3 x 14, Black) (4)	12052890	HD90066
167	Servo	12056834	MD90074
172	Connector	10729820	J1385
191	Receiver Antenna Wire	11112547	A0257
193	Vinyl Tube	Inc. in RSU 11811544 (NP MD90003)	
194	Vinyl Tube	Inc. in RSU 11811544 (NP MD90003)	
198	Tire	Inc. in RSU 11686649 (NP Z00489)	
214	Antenna Tube	10681781	HC4899
237	Spider	Inc. in RSU 11442407 (NP RA2807)	

Ref. No.	Description	RSU Part #	NP Part #
239	Servo Horn	Inc. in RSU 11686664 (NP Z00490)	
240	Servo Saver Mount	Inc. in RSU 11686664 (NP Z00490)	
241	Servo Horn Stopper	12052452	HC90413
242	Servo Saver Spring	Inc. in RSU 11686664 (NP Z00490)	
243	Bearing Holder	Inc. in RSU 11686664 (NP Z00490)	
245	Wheel Axle	Inc. in RSU 11811817 (NP HB90008)	
247	Differential Joint (4)	10675155	HC3048
249	Front Damper (Upper)	Inc. in RSU 11686672 (NP RA00156)	
250	Front Damper (Lower) (Right)	Inc. in RSU 11686672 (NP RA00156)	
251	Rear Damper (Upper)	Inc. in RSU 11686672 (NP RA00156)	
252	Rear Damper (Lower) (Right)	Inc. in RSU 11686672 (NP RA00156)	
253	Front Damper (Lower) (Left)	Inc. in RSU 11686672 (NP RA00156)	
254	Rear Damper (Lower) (Left)	Inc. in RSU 11686672 (NP RA00156)	
256	Knuckle Arm (Right)	Inc. in RSU 11686680 (NP Z00491)	
257	Knuckle Arm (Left)	Inc. in RSU 11686680 (NP Z00491)	
258	Knuckle Arm Holder (Right)	Inc. in RSU 11686680 (NP Z00491)	
259	Knuckle Arm Holder (Left)	Inc. in RSU 11686680 (NP Z00491)	
260	Joint Holder (Right)	Inc. in RSU 11686680 (NP Z00491)	
261	Joint Holder (Left)	Inc. in RSU 11686680 (NP Z00491)	
500	Knuckle Arm Plate (2)	12057048	RA90276
Not Shown	Transmitter Complete Band 1	12059640	ZA90152
Not Shown	Transmitter Complete Band 2	12059655	ZA90153
Not Shown	Transmitter Complete Band 3	12059663	ZA90154

Ref. No.	Description	RSU Part #	NP Part #
Not Shown	Transmitter Complete Band 5	12059671	ZA90155
Not Shown	Transmitter Antenna	10537710	A0039
Not Shown	Transmitter Battery Compartment Cover	12059705	DB90415
Not Shown	Power Switch	12052791	S90234
Not Shown	Owner's Manual	12059721	MU6004216
Not Shown	Service Manual	12059739	MS6004216

SPARE PARTS SETS

NP Part #	RSU #	Description	Contents
Z91312	12057055	Body Set	1 each 1, 3, 5; 2 each 153; 6 each 152; Sticker
A0039	10537710	Transmitter Antenna	1 each Antenna
HC4899	10681781	Antenna Tube Set	5 each 214
Z00489	11686649	Tires and Wheels Set	2 each 50, 51, 121, 198; 6 each 152
Z91313	12057063	Front Bumper Set	1 each 6, 11, 150, Sticker; 2 each 148, 151
RA2808	11442415	Gear Box Set	1 each 24, 25, 26, 27; 5 each 148
MD90003	11811544	Power Motor Set	1 each 33, 34, 126, 137, 161, 193, 194; 2 each 140, 142, 148; 3 each 163
HD90001	11811650	Screw Set	1 each 138, 139, 154, 155, 156, 157; 4 each 121, 122, 158
Z00490	11686664	Servo Saver and Plastic Bearing Set	1 each 144, 239, 240, 242; 4 each 70, 72, 73, 243
RA2807	11442407	Gear Set	1 each 74, 75, 76, 132, 237; 2 each 88, 89; 4 each 143
DB0245	10605061	Receiver Battery Lid	1 each 18
HC3047	10675148	Front and Rear Damper Stay Set	1 each 37, 39, 40, 42, 45, 90; 2 each 148, 153; 4 each 111, 134
RA00156	11686672	Suspension Set	1 each 250, 252, 253, 254; 2 each 52, 53, 103, 104, 249, 251; 4 each 68
Z00491	11686680	Knuckle Arm and Joint Holder Set	1 each 256, 257, 258, 259, 260, 261; 2 each 78, 79, 159
RK0148	11038015	Drive Shaft Set	2 each 116
RK0149	11038023	Tie-Rod Set	1 each 107, 108
HC3048	10675155	Differential Joint Set	2 each 247
HB90008	11811817	Wheel Axle Set	2 each 160, 245

CARE

The following suggestions will help you care for your Tempest so you can enjoy it for years.

- Do not drive the car through puddles or mud, on a wet floor, or in sand, rain, or snow. These can damage it.
- Do not expose the car or transmitter to temperature extremes, and do not store them in direct sunlight or near a heat source.
- Do not leave the car or transmitter outside overnight. Night dampness can damage their electronic circuits.
- To protect the car's mechanisms from lint and hair, do not drive the car on carpet.
- Wipe the car and transmitter with a damp cloth occasionally to keep them looking new. Do not use harsh chemicals to clean them.

Modifying or tampering with the car's or transmitter's internal components can cause a malfunction and might invalidate the car's warranty and void your FCC authorization to operate it. If your car is not performing as it should, take it and the transmitter to your local RadioShack store for assistance.

THE FCC WANTS YOU TO KNOW

Your racer or transmitter might cause TV or radio interference even when it is operating properly. To determine whether your racer or transmitter is causing the interference, turn off your racer and the transmitter. If the interference goes away, your racer or transmitter is causing it. Try to eliminate the interference by:

- moving your racer and transmitter away from the TV or radio
- contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using your Tempest.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, crash, collision, impact, violent contact, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

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